#	Protocol or Appendix	Change	Reason
1.	1.0 Routine Patient Care	In a critical patient with no other vascular	Aligning protocols with the 2003
	Assessment and Treatment	access, if trained to do so and with concurrent	Advisory.
	Priorities	on-line medical control order, Paramedics may	
		access a Peripherally Inserted Central Catheter	
		(PICC) line (not any other central access) in	
		order to administer medications.	
2.	1.0 Routine care	Infusion pumps must meet the following criteria:	Minimum requirement for an
	Medication and Storage	· FDA-approved, and not excluded from	infusion pump.
		transport use	-Norepinephrine must be
		· Contain a drug library with adult and pediatric	administered via a pump due to small dosing requirements.
		dosing · Minimum of 1 channel	-Until pumps are available continue
		· Use latex-free and needle-free tubing sets	to use Dopamine.
		· Capable of operating with battery or AC-	to use Dopamine.
		adapter power sources.	
3.	2.2A-Allergic	Added language to A section:	Paramedics and Advanced EMTs
-	Reaction/Anaphylaxis-Adult	If approved, Epinephrine 1:1,000 0.3 mg IM-	may administer Epinephrine 1:1000
	7	ONLY.	IM if approved by the Service's
		Must be administered in accordance with criteria	Affiliate Hospital Medical Director
		listed in A1Adult Medication Reference.	and trained by the service.
4.	2.2A-Allergic Reaction	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
	/Anaphylaxis-Adult	from Norepinephrine dosing.	Routine Patient Care.
5.	2.2A-Allergic	In Medical Control section	Consistent dosing for Epinephrine
	Reaction/Anaphylaxis-Adult	Epinephrine infusion-dose changed	infusions throughout the protocol.
	2.25 411 :	from 1-10 mcg/min to 2-10mcg/min.	D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
6.	2.2P-Allergic	Added language to A section:	Paramedics and Advanced EMTs
	Reaction/Anaphylaxis-Pediatric	If approved and the patient is over 6 months,	may administer Epinephrine 1:1000
		administer Epinephrine 1:1,000 0.15 mg IM-ONLY (for pediatric patient with a body weight	IM if approved by the Service's Affiliate Hospital Medical Director
		less than 25 kg). If body weight is over 25 kg,	and trained by the service.
		use Epinephrine 1:1,000 0.3mg. Must be	and trained by the service.
		administered in accordance with criteria listed	
		in A1 Adult Medication Reference Contact	
		Medical Control if second epinephrine dose	
		required after 5 minutes.	
7.	2.3A Altered Mental/Neuro/	Dextrose dose changed to read: Dextrose 12.5 g	Encourage the use of D10 in all
	Diabetic Emergencies-Adult	IV/IO. Recheck glucose 5 minutes after	care. D50 is hypertonic can irritate
		administration of Dextrose. May repeat	tissues.
		Dextrose up to 25 g IV/IO if glucose level is	
0	2.4 Dehavioral E	<70mg/dL with continued altered mental status. Added to Personadio Standing and an	Votomina ia homoficial in turation
8.	2.4 Behavioral Emergencies- Adult and Pediatric	Added to Paramedic Standing order: Ketamine 4mg/kg IM only, to a maximum dose	Ketamine is beneficial in treating the severely agitated patient. 39%
	Addit and I culaute	of 400mg IM only, as a single dose.	of patients receiving Ketamine
		or toonig in only, as a single dosc.	required intubation.
0	2 6D Dronghoon construction	Docio EMTo most administra Enimentaria	*
9	2.6P-Bronchospasm/Respiratory Distress-Pediatric	Basic EMTs may administer Epinephrine for severe distress: If patient is over 6 months	EMT-Basics can give Epinephrine
	Distress-rediatife	old, administer pediatric dose Epinephrine	for severe distress in Bronchospasm.
		1:1000 0.15 mg IM only (for pediatric patient	Diononospasiii.
		with a body weight less than 25 kg) by auto-	
		injector. If body weight is over 25 kg,	
		administer Epinephrine 1:1,000 0.3 mg IM only	
		by auto-Injector. A second injection in 5	
		minutes may be necessary.	
		OR (continues next entry)	

#	Protocol or Appendix	Change	Reason
10.	2.6P-Bronchospasm/Respiratory	If approved, administer Epinephrine 1:1,000	EMT-Basics may administer
	Distress-Pediatric	0.15 mg IM-ONLY (for pediatric patient with a	Epinephrine 1:1000 IM if approved
		body weight less than 25 kg). If body weight is	by the Service's Affiliate Hospital
		over 25 kg, use Epinephrine 1:1,000 0.3mg.	Medical Director and trained by the
		IM- ONLY. Must be administered in	service.
		accordance with criteria listed in A1 Adult Medication Reference. Criteria listed in protocol.	
11.	2.10 Obstetrical Emergencies	Language added in a clinical box-Special	AHA recommendation.
11.	2.10 Costerical Emergencies	Considerations in Cardiac Arrest (with	71171 recommendation.
		additional resources)	
		-If the fundus height is at or above the level of	
		the umbilicus-Manually displace the gravid	
		uterus to the left to enhance venous return.	
12.	2.14 Poisoning/Substance	For First Responders/EMT-Basics and EMT-	Stronger dosing for more potent
	Abuse/Overdose/Toxicology-	Intermediates	opioids.
	Adult and Pediatric	Naloxone dose range is now 2mg to 4 mg.	
13.	2.14 Poisoning/Substance	Advanced EMTs	Stronger dosing for more potent
	Abuse/Overdose/Toxicology-	Naloxone dose range is now 0.4 mg – 4 mg	opioids.
	Adult and Pediatric	IV/IO/IM/IV	
14.	2.14 Poisoning/Substance	Hydroxocobalamin 5 gm IV/IO over 15 minutes	Clarifying dosing adding pediatric
	Abuse/Overdose/Toxicology-	in an adult.	dose to this protocol.
	Adult and Pediatric	In a pediatric patient 70 mg/kg (to maximum 5	
		gm) IV/IO over 15 minutes.	
15.	2.15P Seizures – Pediatric	Midazolam 0.05mg/kg IV/IO/IM to a maximum	Updated dosing.
		single dose of 4mg.	
		OR Midazolam 0.2mg/kg IN to a maximum dose of	
		10 mg.	
16.	2.16A Shock-Adult	In the Medical Control section:	Technical fix.
		Norepinephrine and Dopamine doses added back	
		into Distributive shock the Medical Control	
		section.	
17.	2.16A Shock-Adult	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
10	2.164.61 1.41.1	from Norepinephrine dosing.	Routine Patient Care.
18.	2.16A Shock-Adult	In the Medical Control section for Cardiogenic,	Additional vasoactive medication
		Distributive, Hypovolemic and Obstructive shock: Epinephrine Infusion –	option. Must be infused using a medication pump.
		2-10 mcg/min IV/IO by pump added.	incurcation pump.
		For reference dosing preparation reminder under	
		Cardiogenic shock only:(for example: mix 1 mg	
		of 1:1000 Epinephrine in 250 ml Normal	
		Saline). (15 micro drops/minute = 1 mcg / min.).	
19.	2.16P Shock-Pediatric	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
20	2.17 Comeia NIEW Deserves	from Norepinephrine dosing.	Routine Patient Care.
20.	2.17 Sepsis NEW Protocol	-Identification criteria of possible Sepsis	Improve patient outcomes.
		-Sepsis ALERT -ALS interventions.	
21.	2.18 Stroke Protocol	Renumbered to keep Sepsis Protocol (above)	Keeping the Shock protocols
21.	2.10 Buoke i loweoi	with the Shock Protocols.	together for easier referencing.
22.	3.3A Bradycardia-Adult	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
		from Norepinephrine dosing.	Routine Patient Care.

#	Protocol or Appendix	Change	Reason
23.	3.3A Bradycardia-Adult	Epinephrine infusion dose changed to 2-10	Provides consistent Epinephrine
	,	mcg/min IV/IO in MC section.	infusion dosing throughout the
			protocols.
24.	3.4A-Cardiac Arrest (ADULT)-	in the EMT section-this line was added:	AHA recommendation.
	Asystole/Pulseless Electrical	If suspected opioid overdose administer	
	Activity	Naloxone per protocol.	
25.	3.4P-Cardiac Arrest	in the EMT/Intermediate/Advanced EMT	AHA recommendation.
	(PEDIATRIC)-	section-this line was added:	
	Asystole/Pulseless Electrical	If suspected opioid overdose administer	
	Activity	Naloxone per protocol.	
26.	3.5A Cardiac Arrest-(ADULT)-	in the EMT/Intermediate section-this line was	AHA recommendation.
	Ventricular	added:	
	Fibrillation/Pulseless	If suspected opioid overdose administer	
27	Ventricular Tachycardia	Naloxone per protocol.	Widin the constant for the Constant
27.	3.5A Cardiac Arrest-(ADULT)	Moved Magnesium Sulfate from the Medical	Within the scope of practice for the Paramedic.
	Ventricular Fibrillation/Pulseless	Control section to the Paramedic Standing orders section	Paramedic.
	Ventricular Tachycardia	Magnesium Sulfate 1 – 2 grams IV/IO over 5	
	ventricular racinycardia	minutes, in torsades de pointes or suspected	
		hypomagnesemic state or refractory ventricular	
		fibrillation/ventricular tachycardia.	
28.	3.5P Cardiac Arrest-	in the EMT/Intermediate/Advanced EMT	AHA recommendation.
20.	(PEDIATRIC) Ventricular	section-this line was added:	This recommendation.
	Fibrillation/Pulseless	If suspected opioid overdose administer	
	Ventricular Tachycardia	Naloxone per protocol.	
29	3.6 Congestive Heart Failure	In Paramedic section language removed from	Beta agonists not helpful and
	(Pulmonary Edema)	3rd bullet "and if nebulizer therapy can be	potentially harmful in CHF.
	,	continued with the CPAP device".	
30.	3.6 Congestive Heart Failure	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
	(Pulmonary Edema)	from Norepinephrine dosing.	Routine Patient Care.
31.	3.7 Induced Hypothermia	Removed chilled saline from the I/A section.	2015 AHA recommendation.
32.	3.7 Induced Hypothermia	Removed temperature reference 34 degrees C or greater in P section.	2015 AHA recommendation.
33.	3.7 Induced Therapeutic	Removed IN route from Morphine added the sc	IN route is not as effective for
	Hypothermia	route.	Morphine delivery.
34.	3.8 Post Resuscitative	Epinephrine infusion dose changed to 2-10	Provides consistent Epinephrine
	Care/ROSC - Adult	mcg/min IV/IO in MC section.	infusion dosing throughout the
25	2 9 Dogt Dogugaitatian	Amio domono holyo dofine d. I amana and d. 1	protocols.
35.	3.8 Post Resuscitative Care/ROSC - Adult	Amiodarone bolus defined. Language added	Clarifying dosing.
	Cart/NOSC - Addit	that reads: Amiodarone bolus (150mg in 10mL normal saline slow over 8-10 minutes), followed	
		by 1 mg/min IV/IO drip.	
36.	4.3 Eye Emergencies Adult &	The protective cup is replaced with an eye	Improving patient safety.
50.	Pediatric	shield. Changes in the Puncture Wound	improving patient surery.
		statement and # 2 in the Securing Impaled	
		Object.	
37.	4.3 Eye Emergencies Adult &	Moved Tetracaine from the Medical Control	Within the scope of practice for the
	Pediatric	section to the Paramedic Standing orders section.	Paramedic.
		"Topical anesthetic: Tetracaine 1-2 eye drops as	
		needed, if available".	
38.	4.3 Eye Emergencies Adult &	Moved the Morgan lens from the Medical	Within the scope of practice for the
	Pediatric	Control section to the Paramedic Standing orders	Paramedic.
		section. "Use of Morgan lens for eye irrigation".	

#	Protocol or Appendix	Change	Reason
39.	4.6 Musculoskeletal Injuries-	This note (in routine care) was added to this	Reminder note: when the distal
	Adult and Pediatric	protocol: Note: If no palpable, distal pulse is	pulse is absent and there is no
		present following suspected extremity fracture,	dislocation.
		position injured extremity in correct anatomic	
		position, and apply gentle traction along the axis	
		of the extremity distal to the injury until the	
		distal pulse is palpable and immobilize in place.	
		Note: This does not apply to dislocations.	
40.	4.8 Spinal Column/Cord Injuries	Item 10 to read: utilize a SLIDE BOARD "if	Transfer method following spinal
	Adult & Pediatric	available" at the destination	immobilization.
41.	4.9 Thoracic Trauma Adult &	Removed section in parenthesis from the	The optimal place to do a needle
	Pediatric	Paramedic Standing Orders-line will read:	decompression depends on the
		Needle chest decompression if indicated.	patient size and injury.
		Removed (2nd intercostal space, midclavicular	
		line with at least 3.25 inch, 14g angiocath).	
42.	5.1P Upper Airway Obstruction-	This language was added to the Paramedic	Clarifying language, this language
	Pediatric	section: If unable to clear airway obstruction,	is in 5.1A-Upper Airway
		unable to intubate as needed or unable to	Obstruction-Adult Protocol, should
		perform positive pressure ventilations, perform a	be in this Pediatric protocol.
		needle cricothyrotomy, if permitted under 6.3	
		Needle Cricothyrotomy.	
43.	6.0 Medical Director Options	Urban Search and Rescue (USAR) added to	formatting
		Medical Director Options Table of Contents.	
		The content of the co	
44.	6.4 Selective Spinal	In Medical Control section removed "by pump"	It is required, noted in Protocol 1.0
	Assessment	from Norepinephrine dosing.	Routine Patient Care.
45.	6. 5 Medical Director options	The Urban Search and Rescue (USAR) Medical	Paramedics operating under these
	Urban Search and Rescue	Specialist is a paramedic level or higher medical	protocols <i>MUST</i> have completed an
	Protocols-New Protocol	provider capable of delivering immediate	approved FEMA (or equivalent)
		medical response and support to urban search	medical team training program, be a
		and rescue operations and based on the FEMA	designated member of a recognized
		National USAR Task Force medical team model.	local, county or state USAR team
			and have the authority to function in
			this capacity from their agency's
			Affiliate Hospital Medical Director.
46.	7.6 Sedation and Analgesia for	Renamed title –added the term "Analgesia".	Accurate description for sedation
	Electrical Therapy Adult &		and pain relief.
47	Pediatric	Developed Commenced it was de Doute and about and	Taskaiss1 fin
47.	7.9 Process for Changes to the Statewide Treatment Protocols	Paragraph 6 removed-it read: Protocol changes	Technical fix.
	Statewide Treatment Protocols	to be implemented by the department shall be	
		issued no later than February 1 of each year,	
		with implementation no later than March 15 by EMS Service's Affiliate Hospitals unless the	
		department specifies a longer window of issue or	
		implementation.	
48.	A1 Adult Med Reference-	Corrected spelling-Nitrite	Technical fix.
	Cyanide Antidote Kit		
49.	A1 Adult Med Reference-	Updated to reflect changes to protocol 2.3.	Updating dose noted in Protocol
	Dextrose		2.3.
50.	A1 Adult Med Reference-	Updated to reflect changes in protocols 2.2A,	Reference consistent with the
	Epinephrine	and 2.6A. IM kit criteria listed.	protocol.

#	Protocol or Appendix	Change	Reason
51.	A1 Adult Med Reference-	Infusion -IV dose updated for Allergic Reaction	Epinephrine infusion dosing is
	Epinephrine 1:1000 (by infusion	to 2-10 mcg/min	consistent throughout the Protocols.
	only)	and the list of diagnoses alphabetized	
		and Information on Shock added.	
		Now reads:	
		Allergic Reaction-2-10 mcg/min IV/IO infusion (maintenance)	
		Bradycardia-2-10 mcg/min IV/IO infusion	
		Post-Resuscitation-2-10 mcg/min IV/IO infusion	
		Shock-Adult 2-10 mcg/min IV/IO infusion-by	
		pump.	
52.	A1 Adult Med Reference-	Added to reflect dosing addition to 2.4	Added to reflect addition to 2.4
	Ketamine	Behavioral Protocol.	Behavioral Protocol.
		Added this maying and a single	
53.	A1 Adult Med Reference-	Added this maximum dosing language to dosing line "-generally to a maximum dose of	Added maximum dosing level.
	Norepinephrine	30 mcg/min." Now reads:	
		Hypotension	
		0.1mcg/kg/min IV/IO titrate to goal SBP of 90mmHg-generally to a maximum dose of 30	
		mcg/min.	
54.	A2 Pediatric Color Coded	Table reference added. Average weight design	Ensura proper desing
54.	Medication reference-Cyanokit	Table reference added. Average weight dosing also added to Hydroxocobalamin references.	Ensure proper dosing.
	The second reference Cyunokit	and added to Hydronovoodidiiiii foroioiloos.	
55.	A2 Pediatric Color Coded	Updated to reflect changes in protocols 2.2P.	Reference consistent with the
	Medication reference-	Transaction and protocols 2,21.	protocol.
	Epinephrine		
	10 P 11		
56.	A2 Pediatric Color Coded Medication reference-	average weight doses added based on Cyanokit table.	Ensure proper dosing.
	Hydroxocobalamin	taute.	
57.	IFT- under Minimum Standards	Language added: EMTs providing patient care	Clarifying language.
	IFT-2nd paragraph under	"that exceeds their regular scope of practice	
	Minimum staffing	under the Protocols" during Interfacility	
		Transfers must meet the following requirements	
		as outlined in 105 CMR 170.000 et al:	
58.	IFT- under Minimum Standards	The line: Guidelines for approved ALS	Clarifying language.
	IFT-3rd paragraph	Interfacility Transfer training programs have	
		been issued separately by the Department has been removed.	
59.	IFT under Minimum Standards	Added language to read: IVs (if disconnected	Safety measure. IVs must be
	4a Routine, Scheduled transport	from fluid and on a saline lock during transport).	disconnected and a saline lock must
			be in place during ambulance
			transport.
		<u>l</u>	

#	Protocol or Appendix	Change	Reason
60.	IFT under Patient ALS Transfer	Under 105 CMR 170.360(A), ambulance	Clarifying language:
	Procedures- added as the 6 th	Service's Affiliate Hospitals may not transport a	Hospital staff receives orders from
	paragraph	patient between health care facilities who is	the sending hospital physician.
		receiving medical treatment beyond the training	
		and certification capabilities of the EMTs	
		staffing the ambulance, unless an additional	
		health care professional with that capability	
		accompanies the patient. Further, 105 CMR	
		170.310(B) authorizes hospital staff, such as an	
		RN or RT or MD or DO, to go on the ambulance	
		and render care to the patient during transport.	
		Such sending facility additional health care	
		professional would be responsible for primary	
		patient care of that patient during transport, and	
		would receive any additional orders from the	
		sending physician, since the care of the patient	
		exceeded what the ambulance and its crew could	
<i>C</i> 1	IFT under Section B-B2-Adult	provide.	Clarifying if the WAD is fountioning
61.	Medical Patients-4 th bullet	Patients being transferred due to an issue with a ventricular assist device (VAD) Language	Clarifying if the VAD is functioning properly but the patient is
	Medical Fatients-4 bullet	added:" that may require active monitoring or	experiencing medical/surgical
		management'.	issues, Critical Care Transport
		management.	(CCT) is not required.
62.	A4-Scope of Practice document	Added a box for CPAP assist for EMT with	Technical fix.
02.	Airway/Respiratory	assist to the Paramedic.	Technical IIX.
	Management	assist to the 1 dramedic.	
63.	A4-Scope of Practice document	Added an X for Tracheostomy Care to the	Technical fix.
03.	Airway/Respiratory	EMT, Intermediate and Advanced levels.	Technical IIX.
	Management	ENT, intermediate and redvanced levels.	
64.	A4-Scope of Practice document	Added an X for IV for the Intermediate.	Technical fix.
0 1.	Routes of Access/Medication	Traded and I for I vivi the intermediate.	Toomical IIA.
	Administration		
65.	A5-Point of Entry (POE) Plans	Patient Specific Condition, Trauma, STEMI and	Added as reference material only –
	, , , , , , , , , , , , , , , , , , , ,	Stroke POE	Authority for POE is pursuant to
			EMS System regulations.